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NAVY UNDERWATER SOUND LAB NEW LONDON CONN

F/G 20/6

OPTICAL TRANSMISSION DATA MEASURED DURING CRUISE NUMBER 1 OF PR--ETC(U)

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USL-TM-2121-81-67

UNCLASSIFIED

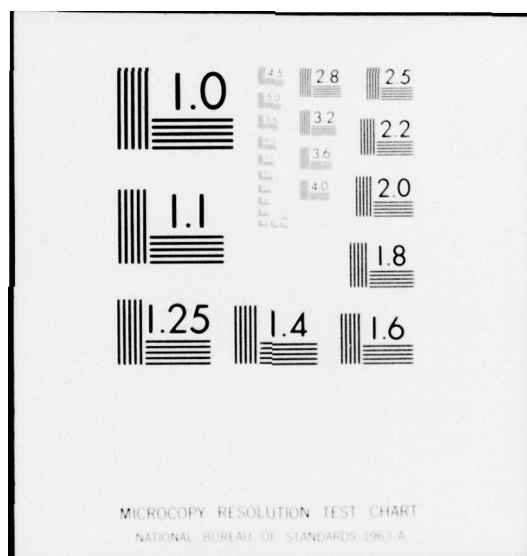
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U. S. NAVY UNDERWATER SOUND LABORATORY
FORT TRUMBULL, NEW LONDON, CONN. 06320

USL Problem
No. 1-053-00-00

⑥ OPTICAL TRANSMISSION DATA MEASURED
DURING CRUISE #1 OF PROJECT EARS

Number By Herman

⑩ H. K. Ruhlmann

⑨ USL Technical Memorandum No. 2121-81-67

⑭ USL-TM-2121-81-67

⑪ 6 November 1967

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Figures 1-7 are plots of percent transmission, for a four meter path, versus depth. The data points are at one minute intervals. The measurements were made from a minimum depth of four (4) meters below the surface to three (3) meters from the ocean floor.

The measurements were made during Cruise #1 of Project EARS during the period of 28 September - 13 December 1966. Table I shows the location, date and time period of each measurement.

TABLE #1

Run #	Lat(N)	Long(W)	Date	GMT	Figs.
1A & 1B	34° 47'	10° 10'	12 Nov	1700-2000	1&2
2A & 2B	36° 33'	21° 04'	18 Nov	1900-2217	3&4
3A	40° 20'	32° 58'	27 Nov	1600-1915	5
4A & 4B	40° 30'	67° 00'	11 Dec	1950-2030	6&7

*A is lowering run, B is raising run

The instrument used for these measurements was a four meter optical transmissionometer which measures transmission of light in the 5000-6000A° wavelength region. The system was lowered on a cable from the USNS SANDS for the measurements. The accuracy of the measurements is ±2%.

DISTRIBUTION STATEMENT A

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Distribution Unlimited

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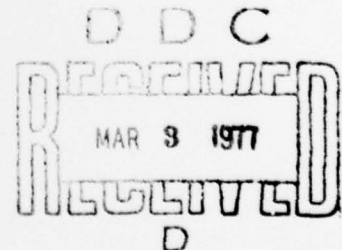
USL Tech Memo
No. 2121-81-67 ✓

A complete discussion of the transmissometer, calibration technique and measurements will be published in report form.

Herman K. Ruhlmann

H. K. Ruhlmann

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RUN #1A

FIG. 1
JND-USNUSL-426 10x10 to 1/2 inch

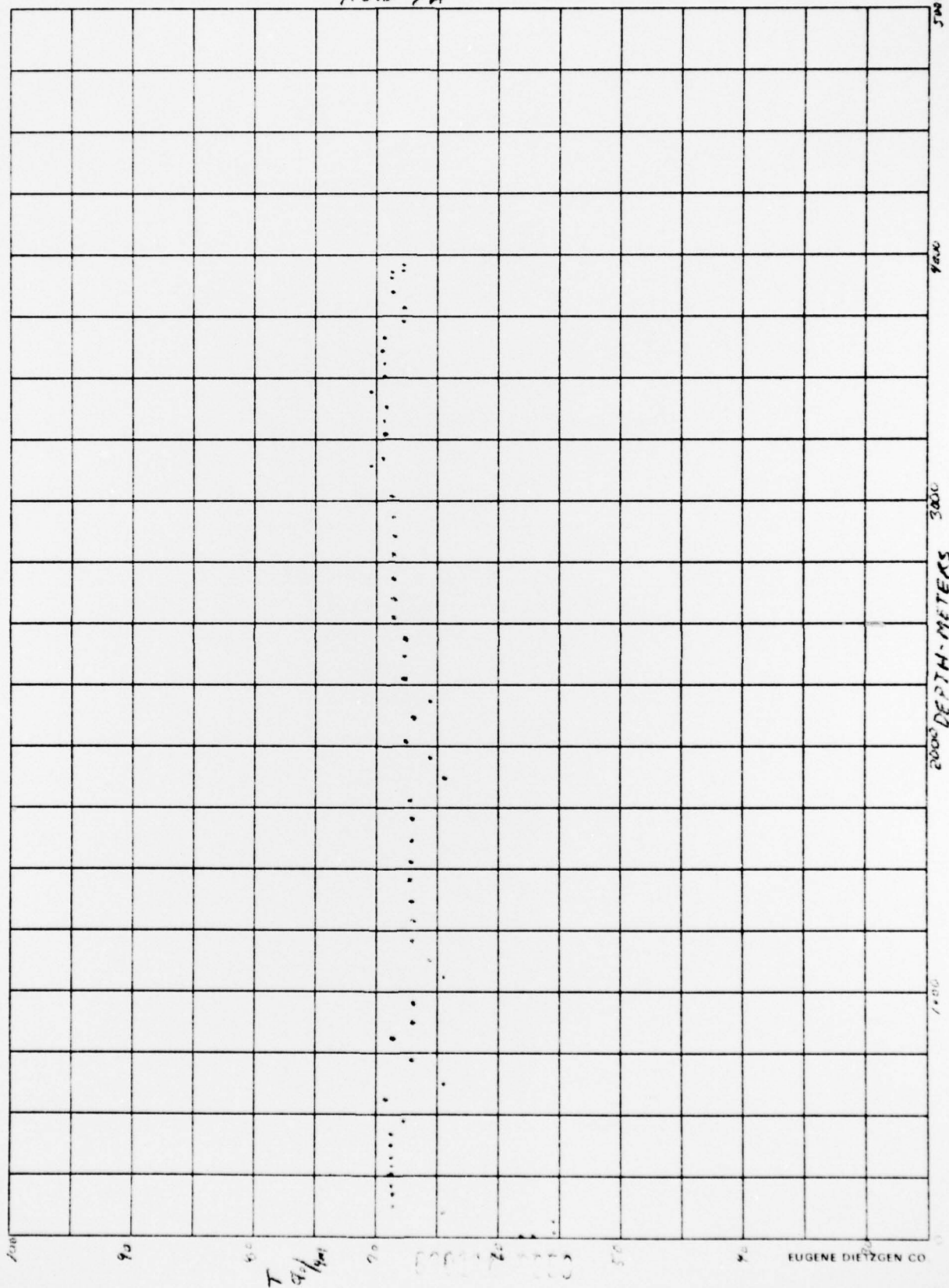
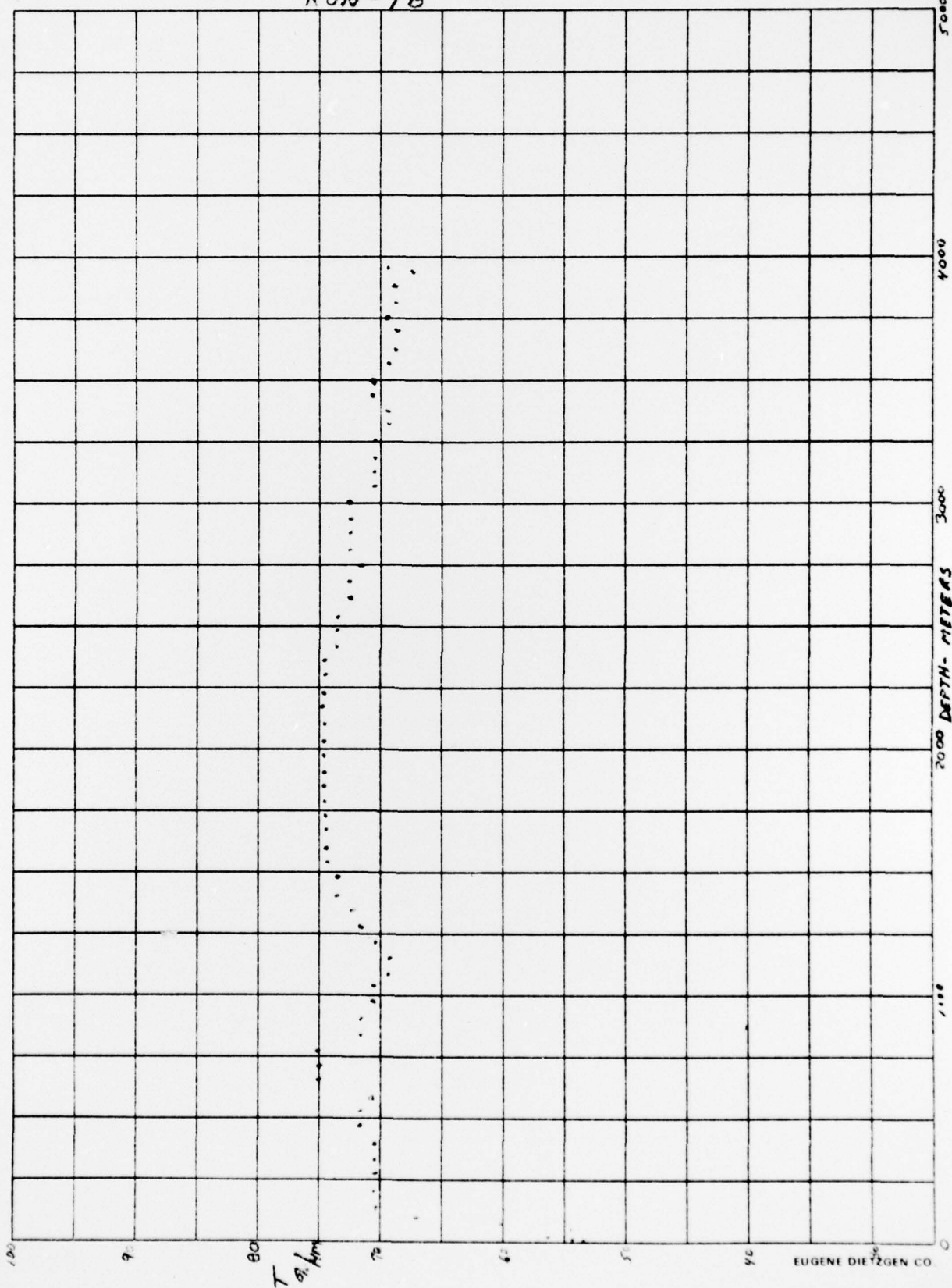


FIG. 2

3ND-USNUBL-420 10x10 to 1/2 inch

RUN #18



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RUN #2A

FIG. 3

3ND-USNUSL-428 10x10 to 1.2 inch

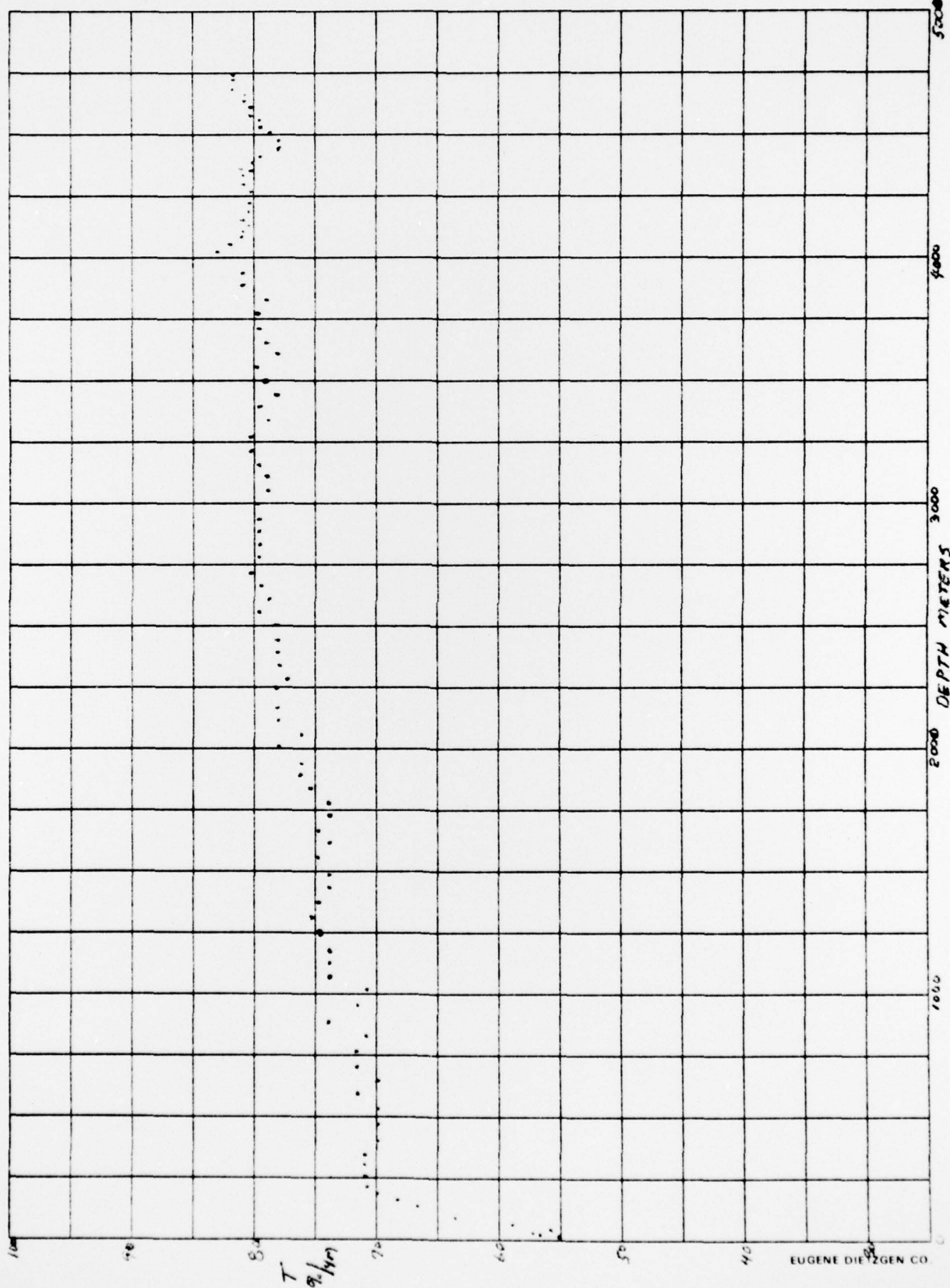
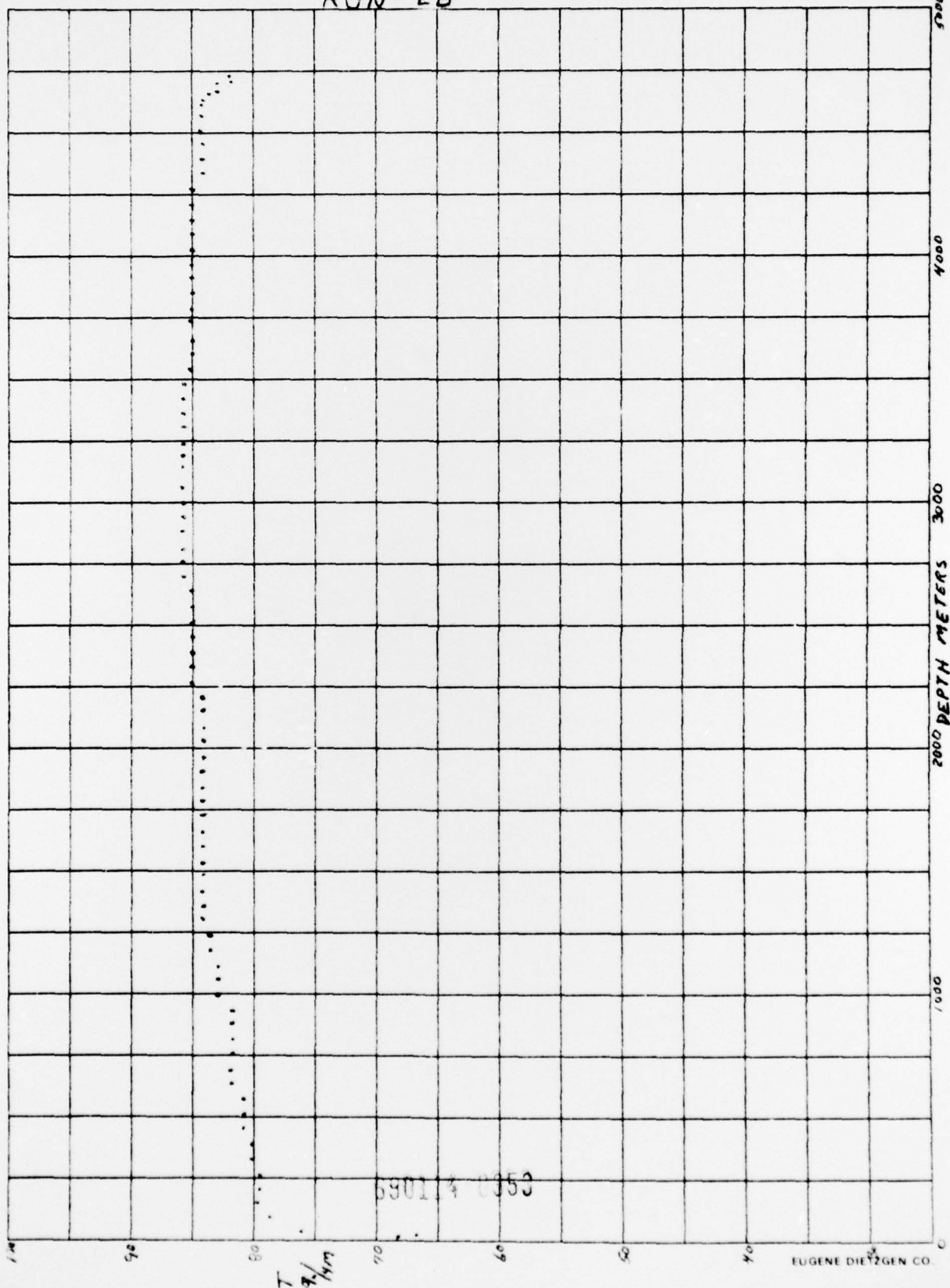


FIG. 4

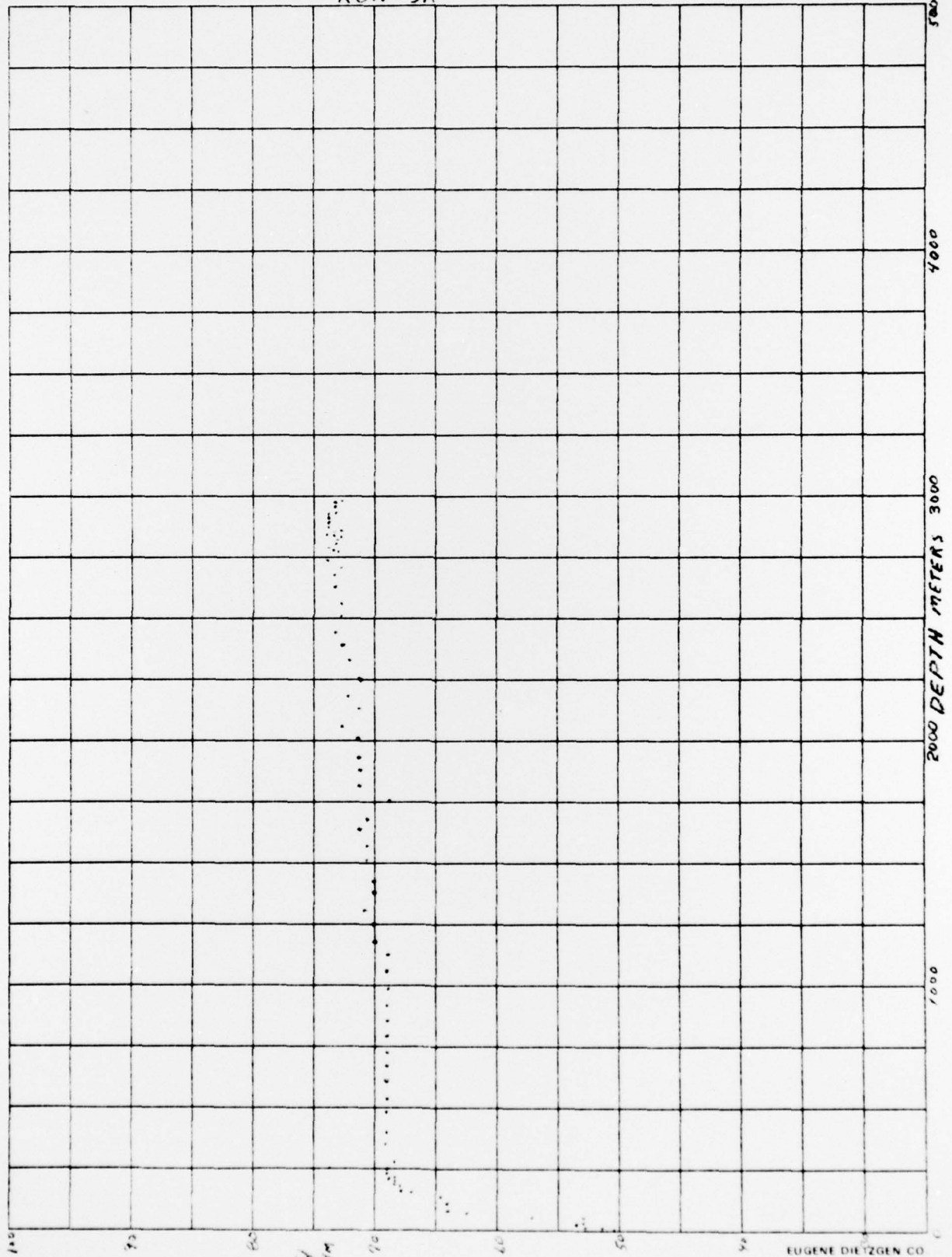
3ND-UBNUSI-428 10x10 to 1:2 inch

RUN #28



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RUN #3A

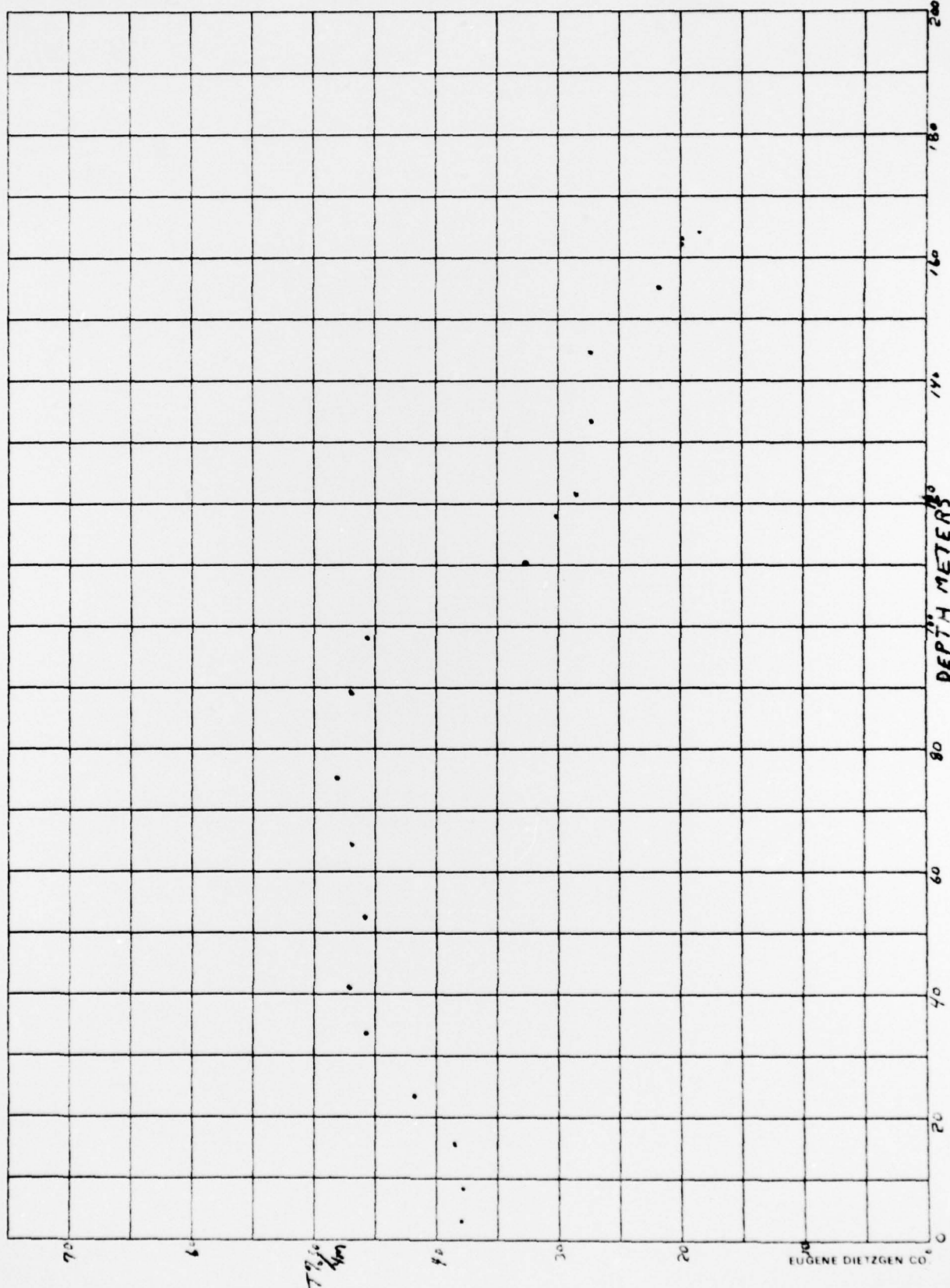


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RUN #4A

FIG. 6

3RD-USNUSL-428 10x10 to 1/2 inch

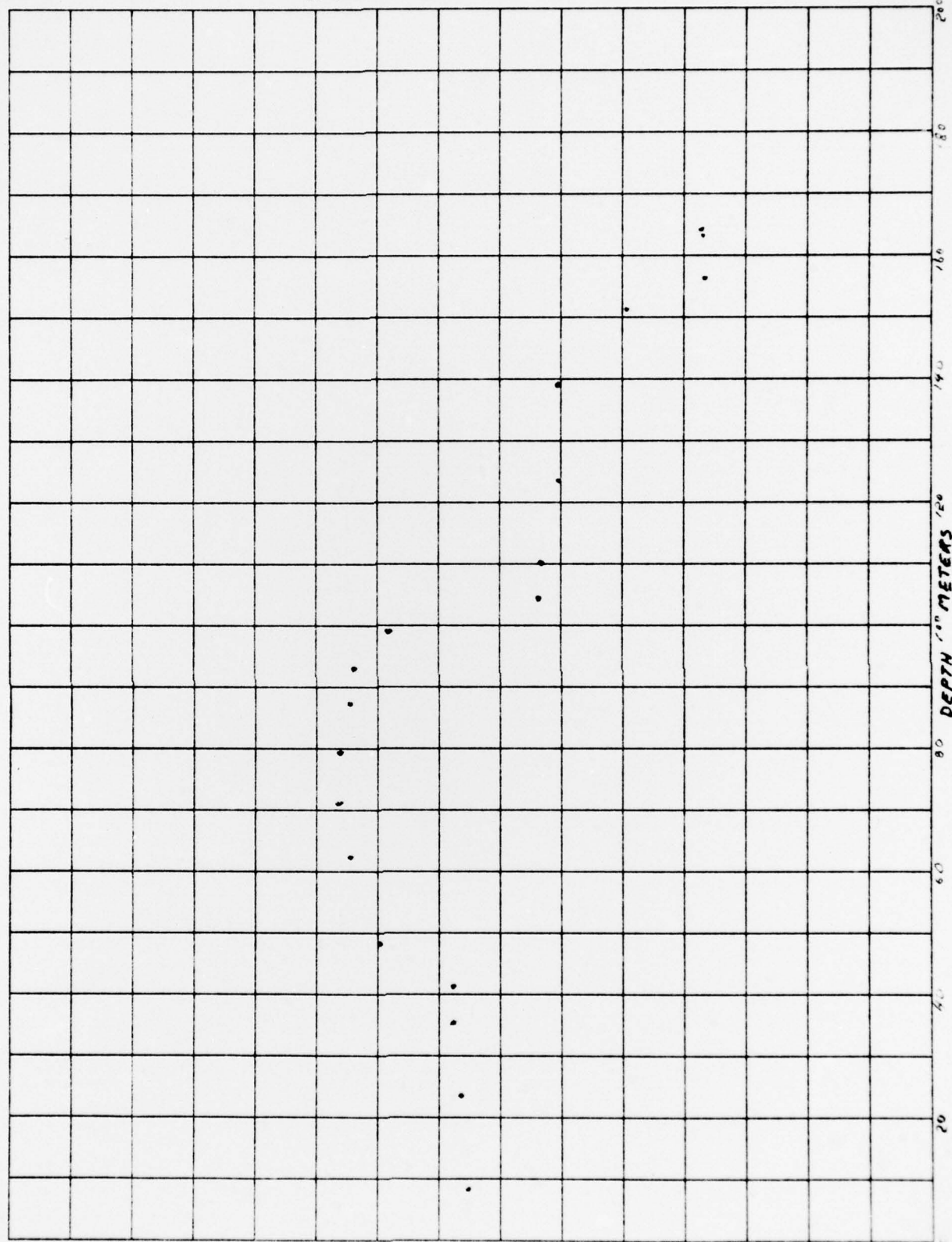


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RUN #48

FIG 7

2ND-USE/US-428 10x10 to 1/2 inch



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